ORDER No. RDC 653 VRW 78, BANGALORE DATED THE 16TH FEBRUARY 1979.

In the circumstances stated above, the Government of Karnataka is pleased to accord approval to the following :

I Chief Engineer, MI & PHE (South), Bangalore :

Recurring :

		Total Cost per month
1. (1) To the creation of Posts of 2 Geologists in Grade	Rs. 750-1525	Rs. 2,441.88
(2) To the Creation of 2 posts of Assistant Geologists in Grade	Rs. 660-1300	Rs. 2,099.16
(3) To the creation of 4 posts of Geophysists in grade	Rs. 750-1525	Rs. 4 883-76
	Total :	Rs. 9,424.80

For 1 year—Rs. 9,424.80 × 12 = Rs. 1,13,097.60

T. A. and Other allowances per annum Rs. 5,000-00

Rs. 1,18,097.60

(4) Maintenance of vehicles (Jeeps) at Rs. 1000 per month per vehicle 4 vehicles.— Rs. 48,000

Grand Total 1,66,097-60

2. *Non-recurring :*

(1) To the purchase of 4 four wheel Diesel Driven Jeeps with closed cabin at Rs. 52,000 each
Rs. 52,000 × 4 = Rs 2,08,000

(2) To the purchase of 4 Ecophysical instruments at Rs. 30,000 each
Rs. 30,000 × 4 = Rs. 1,20,000

Grand total Rs. 3,28,000
Recurring charges Rs. 1,66,097-60
Non-Recurring charges Rs. 3,28,000-00

Total Rs. 4,94,097-60

or Say Rs. 4,94,100

II C. E. MI & PHE (N), Dharwad.

1 Recurring :

	Total Cost
(i) To the creation of 2 posts of Geologists in Grade Rs. 750-1525	Rs. 2399-00 per month
(ii) To the creation 3 posts of Assistant Geologists/Assistant. Geophylligists in Grade Rs. 660-1300	Total Rs. 5492-00 per month
	3093-00 per month

For 1 year Rs. 5492 × 12 = Rs. 65.904-00

or say Rs. 66,000 per annum

(iii) T. A. and other allowances per annum	Rs. 4,000
(iv) Maintenance of 2 vehicles at Rs. 1000 per month per vehicle	Rs. 24,000
	28,000

Grand total for reourring Rs. 91,000

II Non-recurring :

(i) To the purchase of 2 Diesel driven vehicles with closed cabins at Rs. 52000 each.	Rs, 1,04,000
(ii) To the purchase of 2 Geophysical instruments at Rs. 30,000 each	Rs. 60,000
Total	Rs. 1,64,000

Total recurring and non-reourring Rs. 2,58,000

on each handpump—orders regarding

READ :—

1. G. O. No. RDC 745 VRW 78 dated 21st November 1978.
2. Letter No. PHE/RHP/Spare parts/78-79 dated 30th September 1978 from the C.E.MI and PHE(S), Bangalore.
3. D.O. Lt. No. PHE/RHP/Spare parts/78-79 dated 15th December 1978 from the C.E. MI and PHE(S), Bangalore.

PREAMBLE :—

In the G. O. cited at (1) above sanction has been accorded for the creation of 19 Mobile Maintenance and Repair Cells with necessary staff, at the rate of one cell per District, for effective repairs to the handpumps fitted to the borewells and also to under take repairs to the piped water supply schemes. Orders have also been issued making necessary provision for meeting the expenditure on repairs to the handpumps at the rate of Rs. 30 per handpump per year.

The Chief Engineer, MI and PHE, (S), Bangalore in his letter cited (2) above has stated that as directed by Government a study was conducted to workout the average cost of maintaining one handpump and also regarding measures to minimise the cost of repairs and also to find out the methods of standardising the parts required for the handpumps. The study was conducted with three members of the Karnataka State Council of Science and Technology of Indian Institute of Science, Bangalore along with the officers of the PHE Department. According to the study conducted by the Study team cited the average cost on repairs to a handpump has been worked out at Rs. 212 at a time. The cost of repairs to a handpump is stated, would include the average cost of spare parts, labour charges and transportation charges. The Chief Engineer, MI and PHE, Bangalore has also stated that the expenditure on handpumps could be reduced if the following modifications are adopted :—

(1) Leather buckets should be of the butt portion of a calf and be strictly to specifications

(2) The valves and the cages should have rounded shoulders to present stress concentration and frequent damages and bracakeges.

(3) The Synthetic rubber washer should have a thickness of 10 mm. instead of 6 mm. to provide better cushion effect.